

## Nested loops:-

a loop inside a loop.

Syntax:-

```
for var in range (1): # outer loop
    for var in range (1): # inner loop
        statement inner loop
    statement outer loop.
```

Write a program to print divisibles of given number  
using while loop.  
# 30 = 1, 2, 3, 5, 6, 10, 15,

① num = int(input ( ))

```
i = 1
while (i <= 30):
    if (num % i == 0):
        print (i)
    i = i + 1
```

② for i in range (1, 6, 1):

```
    for j in range (1, 6, 1):
        print (i, end = " ")
    print ()
```

Output :-  
1 1 1 1 1  
2 2 2 2 2  
3 3 3 3 3  
4 4 4 4 4  
5 5 5 5 5

③ for i in range (1, 4, 1):

```
    for j in range (1, 11, 1):
        print (i * j, end = " ")
    print ()
```

Output :-  
1 2 3 4 5 6 7 8 9  
2 4 6 8 10 12 14 16 18  
3 6 9 12 15 18 21 24 27